
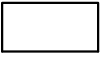
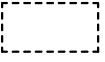








GENERAL ELECTRICAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY CODE.
2. CONTRACT DOCUMENT DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. INSTALL ALL ELECTRICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.
5. COORDINATE CONSTRUCTION OF ALL ELECTRICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL WORK ETC., SHOWN ON OTHER CONTRACT DOCUMENTS.
6. ALL OPENINGS IN FIRE RATED ASSEMBLIES DUE TO BOXES, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH UL CLASSIFIED PENETRATION SYSTEM.
7. FLOOR SLABS SHALL BE X-RAYED BEFORE ANY CORE DRILLING IS COMMENCED.
8. FINAL TESTING: TEST ALL CONNECTIONS AT PANEL BOARDS, DEVICES, AND EQUIPMENT AND ALL SPLICES. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED EQUIPMENT MUST TEST FREE OF SHORT CIRCUITS. UPON COMPLETION OF THE WORK, CLEAN AND POLISH ALL EXPOSED SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
9. ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION.
10. ALL WIRES SHALL BE COPPER WITH 600 VOLT INSULATION UNLESS OTHERWISE NOTED.
11. PROVIDE LINE VOLTAGE BREAKERS AND WIRING TO FEED ANY REQUIRED HVAC CONTROLS.
12. ALL SWITCHBOARDS, SWITCHGEAR, AND PANEL BOARDS SUPPLIED BY A FEEDER(S) IN OTHER THAN ONE- OR TWO-FAMILY DWELLINGS SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES. TYPICAL FOR ALL PANELS.

ELECTRICAL SPECIFICATIONS

- 1.0 RACEWAYS, BOXES, AND CONDUITS
 - A. OUTDOOR WIRING METHODS:
 1. ABOVEGROUND: RIGID OR INTERMEDIATE METAL CONDUIT.
 2. UNDERGROUND: RIGID NONMETALLIC CONDUIT (PVC SCHEDULE 40) UNLESS OTHERWISE NOTED.
 3. CONNECTION TO VIBRATING EQUIPMENT: LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
 - B. BOXES AND ENCLOSURES: NEMA TYPE 3R.
 - B. INDOOR WIRING METHODS:
 1. EXPOSED: ELECTRICAL METALLIC TUBING.
 2. CONCEALED: ELECTRICAL METALLIC TUBING OR MC TYPE ARMORED CABLE.
 - 2.1. CONNECTION TO VIBRATING EQUIPMENT: FLEXIBLE METAL CONDUIT, EXCEPT IN WET OR DAMP LOCATIONS USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
 3. BOXES AND ENCLOSURES: NEMA TYPE 1, EXCEPT IN WET LOCATIONS USE TYPE LISTED FOR WET LOCATIONS.
 - C. ALL CIRCUITRY IN FINISHED AREAS SHALL RUN CONCEALED. MINIMUM SIZE CONDUIT SHALL BE 3/4".
 - D. EXPOSED AND CONCEALED CIRCUITRY (WHETHER CONDUIT OR CABLE) SHALL RUN TIGHT TO CEILING SLAB AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM IN A NEAT WORKMANLIKE MANOR. ALL RUNS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING WALLS.
- 2.0 WIRE AND CABLE
 - A. ALL CONDUCTORS SHALL BE COPPER, MINIMUM #12, UNLESS OTHERWISE NOTED, WITH THHN-THWN INSULATION.
 - B. ALL 120 VOLT CIRCUIT HOMERUNS THAT ARE OVER 100 LINEAR FEET SHALL BE #10 CONDUCTORS MINIMUM.
 - C. WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION MC CABLE MAY BE UTILIZED FOR INTERIOR BRANCH CIRCUITS.
- 3.0 GROUNDING
 - A. GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH NEC EXCEPT WHERE GROUNDING IN EXCESS OF NEC REQUIREMENTS IS INDICATED.
 - B. ALL CIRCUITS SHALL CONTAIN A GROUNDING CONDUCTOR.
 - C. SEPARATELY DERIVED SYSTEMS REQUIRED BY NEC TO BE GROUNDED SHALL BE GROUNDED AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 4.0 PANELBOARDS
 - A. ALL PANELBOARDS SHALL BE EQUIPPED WITH COMMON KEYED LOCKS. PROVIDE A MINIMUM OF TWO KEYS PER PANEL. PANELBOARDS SHALL BE COMPLETE WITH DOOR IN DOOR TYPE COVERS AND TRIMS AND SHALL CONTAIN A GROUND BUS.
 - B. BEFORE ORDERING PANELBOARDS COORDINATE ALL MOTOR CIRCUIT TRIPS WITH EQUIPMENT MANUFACTURERS REQUIREMENTS. COORDINATE CONDUCTOR SIZE WITH ACTUAL MOTORS AND OTHER EQUIPMENT FURNISHED BEFORE INSTALLING CIRCUITRY. ADJUSTABLE TRIP CIRCUIT BREAKERS SHALL BE SET BY THE CONTRACTOR IN THE FIELD.
 - C. CREATE A DIRECTORY TO INDICATE INSTALLED CIRCUIT LOADS. INCORPORATE OWNER'S FINAL ROOM DESIGNATIONS.
 - D. PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH A NAMEPLATE.
- 5.0 DISCONNECTS AND CIRCUIT BREAKERS
 - A. ENCLOSED NON-FUSIBLE SWITCH SHALL HAVE AN ENCLOSURE TYPE CONSISTENT WITH THE ENVIRONMENT WHERE IT IS LOCATED. ENCLOSED FUSIBLE SWITCHES SHALL HAVE CLIPS TO ACCOMMODATE SPECIFIED FUSES, ENCLOSURE CONSISTENT WITH ENVIRONMENT WHERE LOCATED. SWITCHES SHALL HAVE MINIMUM FAULT CURRENT RATING OF 200,000 SYMMETRICAL RMS AMPERES.
 - B. LOCATE DISCONNECT SWITCH (AND MOTOR CONTROLLER) FOR MECHANICAL EQUIPMENT TO PERMIT SERVICING OF EQUIPMENT. CHECK MOTORS FOR PROPER ROTATION. CONNECT CONDUCTORS AS REQUIRED BY MANUFACTURER.
 - C. ENCLOSED MOLDED-CASE CIRCUIT BREAKER: FRAME SIZE, TRIP RATING, NUMBER OF POLES, AND AUXILIARY DEVICES AS INDICATED; INTERRUPTING CAPACITY RATING TO MEET AVAILABLE FAULT CURRENT, 10,000 SYMMETRICAL RMS AMPERES MINIMUM; WITH APPROPRIATE APPLICATION LISTING WHEN USED FOR SWITCHING FLUORESCENT LIGHTING LOADS OR HVAC EQUIPMENT.
 - D. ENCLOSURE: NEMA TYPE 1 UNLESS SPECIFIED OR REQUIRED OTHERWISE TO MEET ENVIRONMENTAL CONDITIONS OF INSTALLED LOCATION.
 1. OUTDOOR LOCATIONS: TYPE 3R
 2. PROPERLY SUPPORT DISCONNECT OR ENCLOSED CIRCUIT BREAKER ON WALL WITH METAL FRAMING AS REQUIRED.
 - A. PROVIDE FUSES IF REQUIRED BY MANUFACTURER OF EQUIPMENT FOR UL APPROVAL OR HACR CIRCUIT BREAKERS.
- 6.0 EQUIPMENT CONNECTION
 - A. EXTEND WIRING TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND MAKE FINAL AND COMPLETE CONNECTIONS TO ALL EQUIPMENT. BEFORE ROUGHING IN THE LOCATION AND TYPE OF DEVICE SHALL BE VERIFIED FROM SHOP DRAWINGS OF THE EQUIPMENT.
- 7.0 EXISTING CONDITIONS
 - A. THE CONTRACTOR SHALL VISIT THE SITE, DETERMINE ALL CONDITIONS AND CIRCUMSTANCES UNDER WHICH THE WORK MUST BE DONE OR OTHER CIRCUMSTANCES WHICH WILL AFFECT THE WORK AND MAKE ALL NECESSARY ALLOWANCES BEFORE SUBMITTING HIS BID.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	NEW (THICK LINED)
	EXISTING TO REMAIN (THIN LINED)
	EXISTING TO BE REMOVED (DASHED)
	WEATHER PROOF GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, 120 VOLTS
	PANELBOARD, SIZE AS NOTED
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
S	SINGLE POLE SWITCH 20A, 277V, 48" AFF
	BRANCH CIRCUIT WIRING. HASH MARKS INDICATE NUMBER OF WIRES. GROUND WIRE NOT SHOWN BUT TO BE PROVIDED AS PER NEC. NO HASH MARKS MEAN 2#12 & #12G.
 A-1	HOMERUN TO PANEL. HASH MARKS INDICATE NUMBER OF WIRES. GROUND WIRE NOT SHOWN BUT TO BE PROVIDED AS PER NEC. LETTER DENOTES PANEL DESIGNATION, NUMBER DENOTES CIRCUIT NUMBER. NO HASH MARKS MEAN 2#12 & #12G.

F

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Baltimore, Maryland

Date:
December 2, 2019

Revisions:

Sheet Title:

LEGEND
AND
NOTES

Project Number:	Drawn By:	Checked By:
004-19	TF	TF

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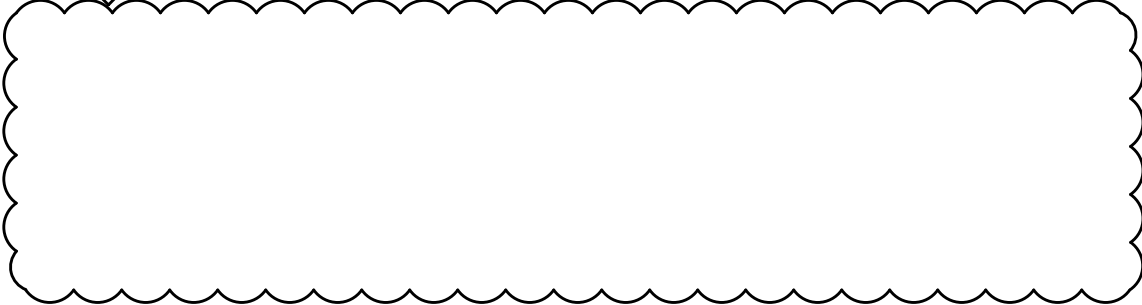


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DRAWING NOTES:

- 1 ASTRONOMIC TIME SWITCH WITH 2 CIRCUITS. INTERMATIC ET90215C. PROVIDE POWER FROM LIGHTING CIRCUIT.
- 2 LOCKABLE DUPLEX EXTRA DUTY METAL WHILE-IN-USE WEATHER PROTECTIVE RECEPTACLE COVER. LEVITON IUM1V-GY OR EQUAL
- 3 REMOVE EXISTING METER AND ASSOCIATED FEEDERS.



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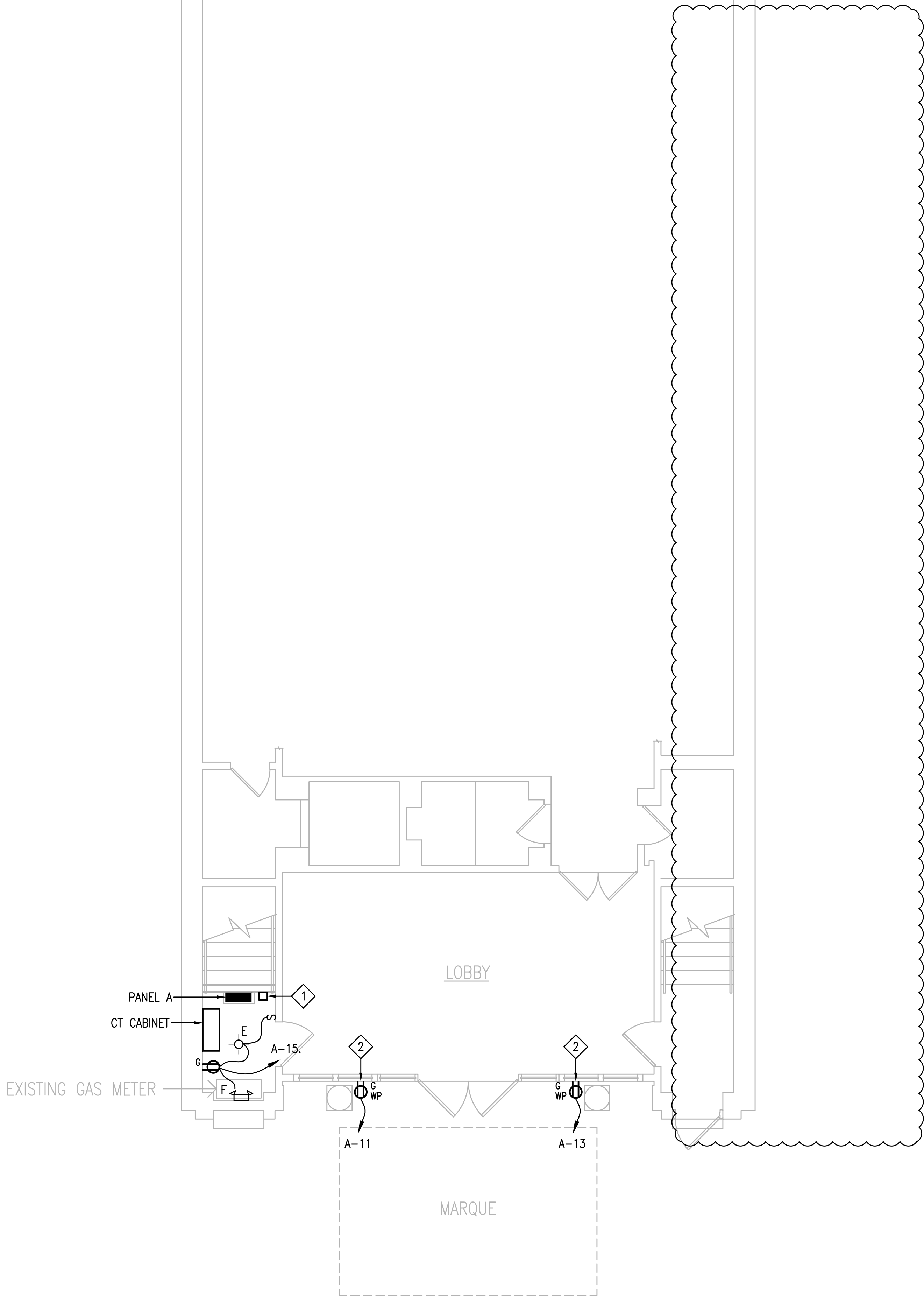
**ELECTRICAL
PLANS**

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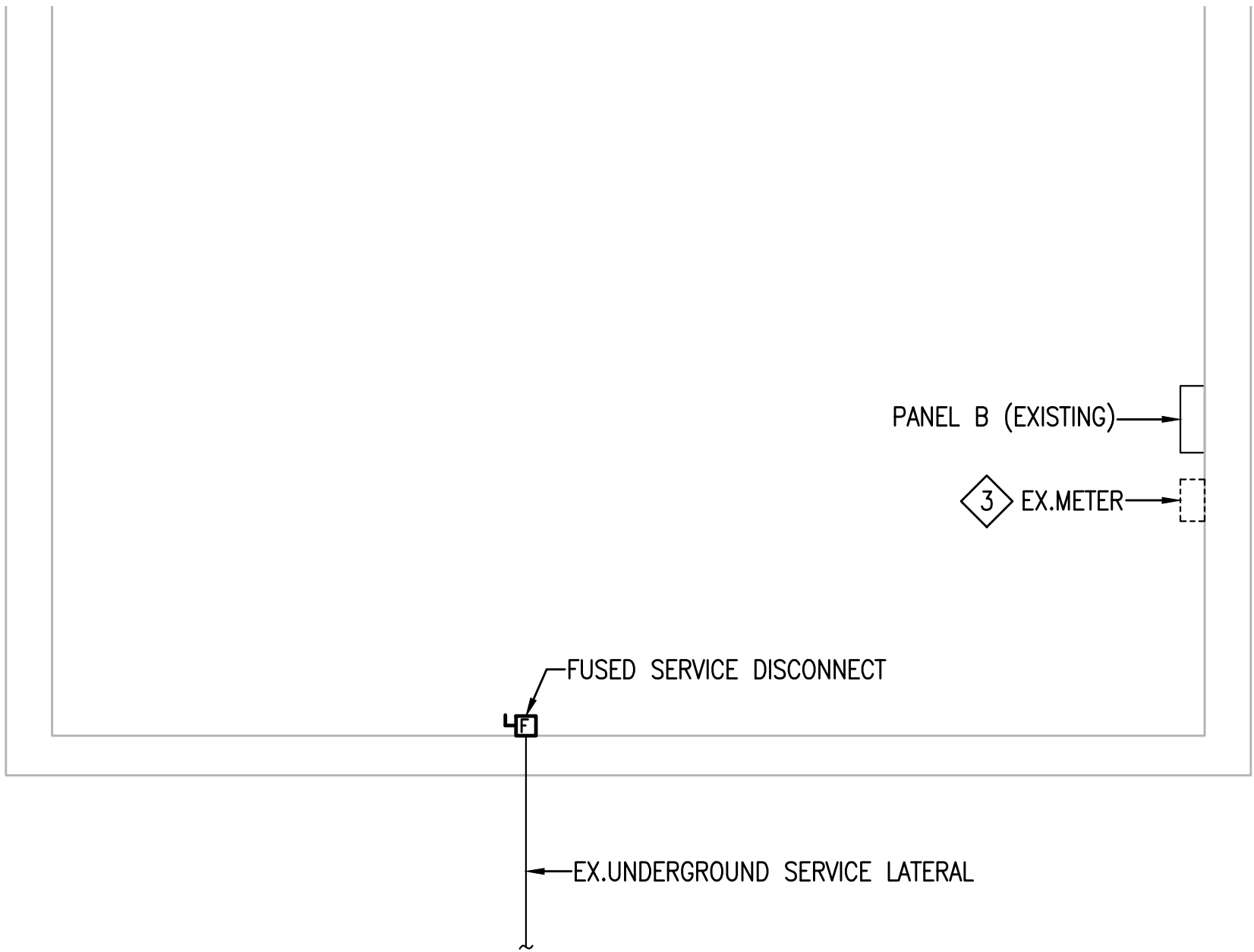
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FIRST FLOOR PLAN
1/4" = 1'-0"

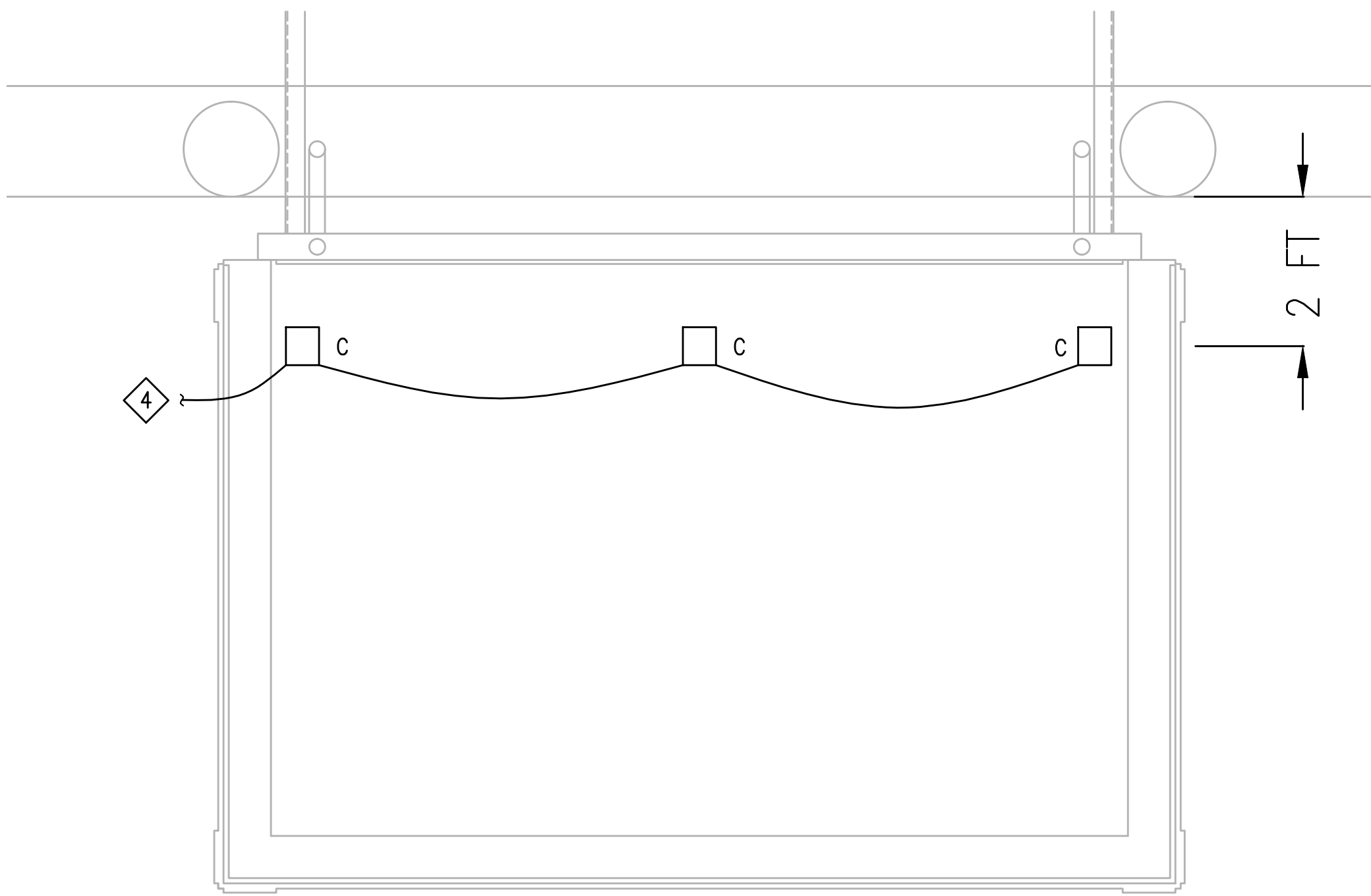


BASEMENT PLAN
1/4" = 1'-0"

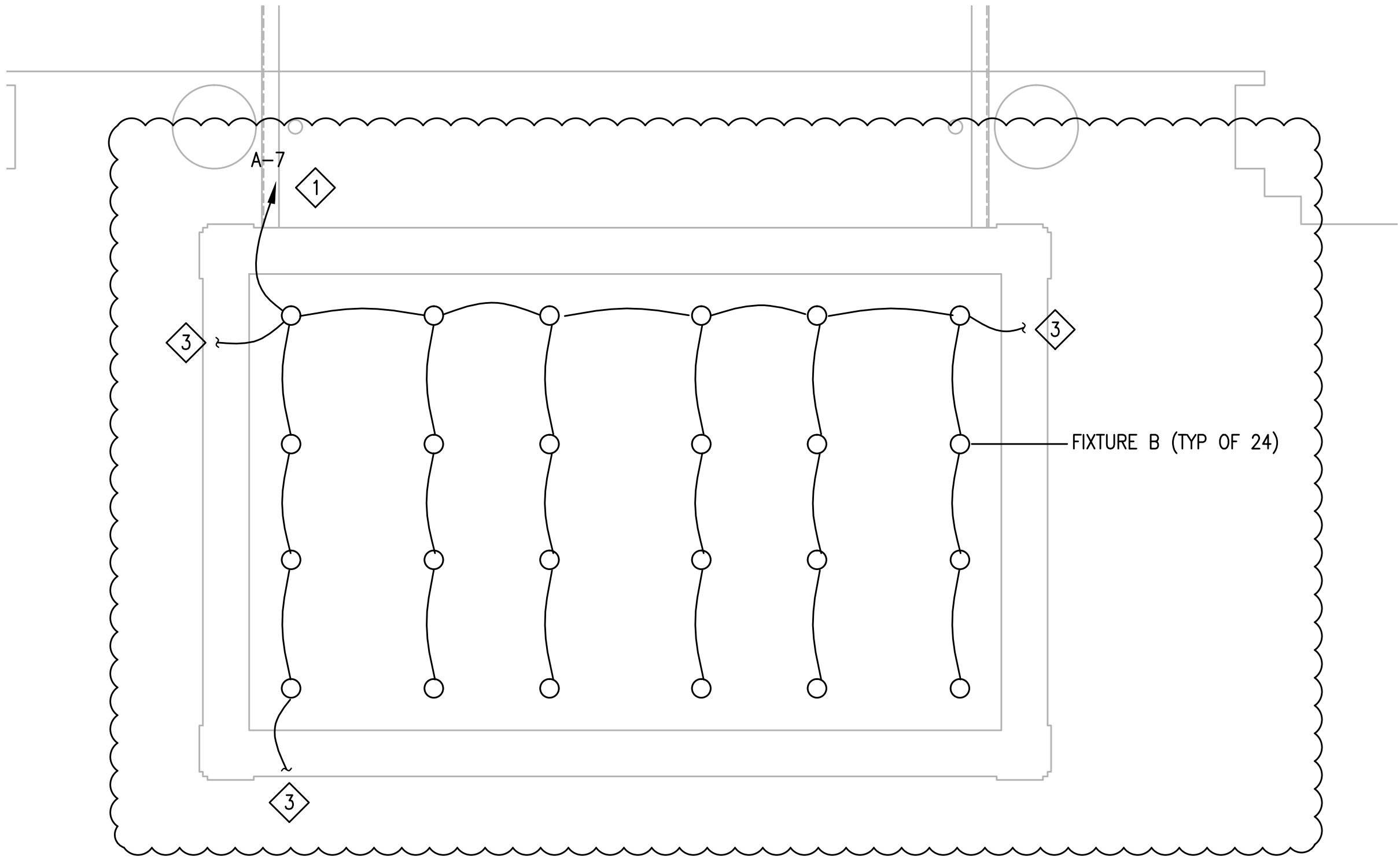


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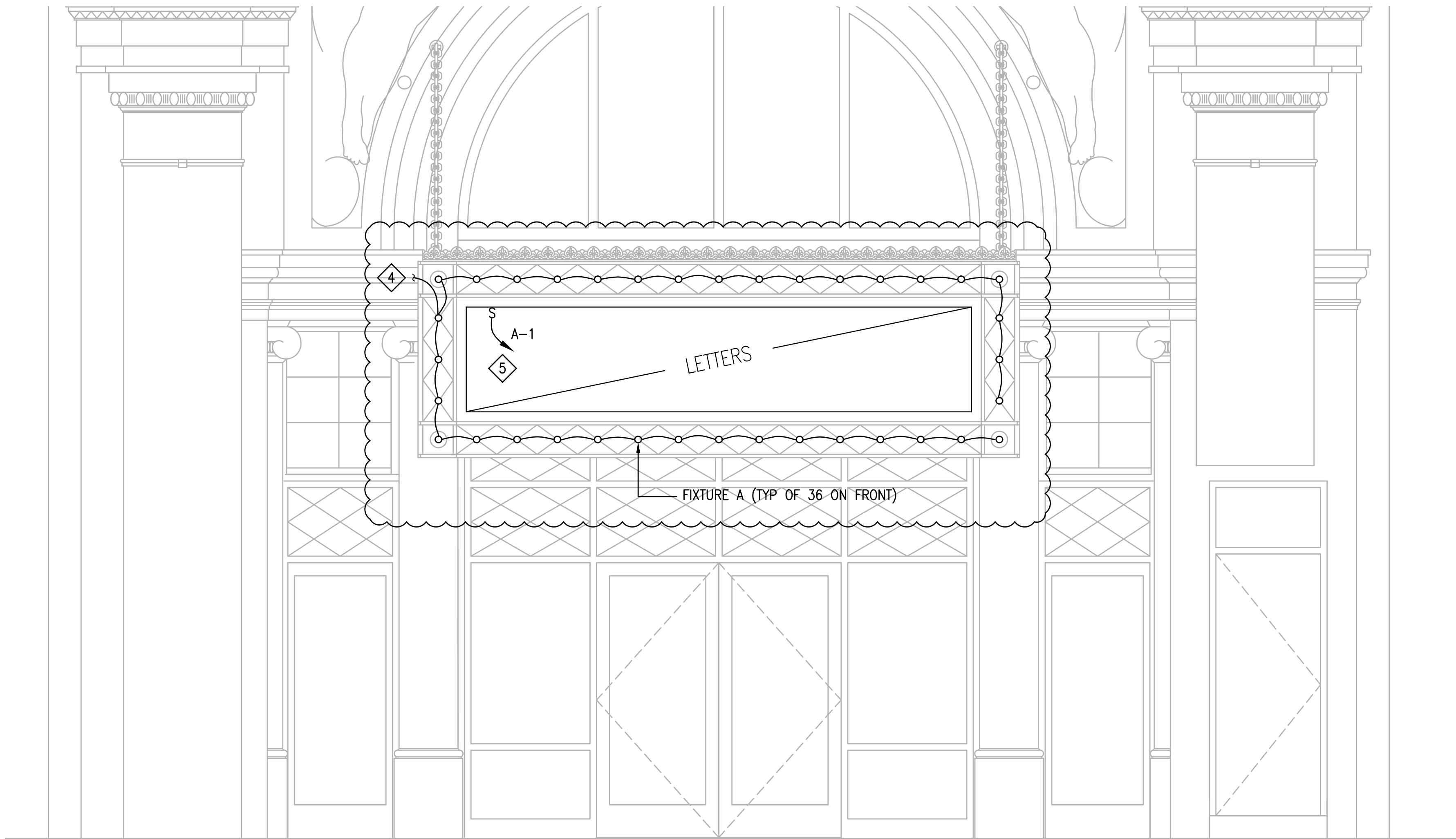


ROOF OF MARQUEE LIGHTING
1/2" = 1'-0"

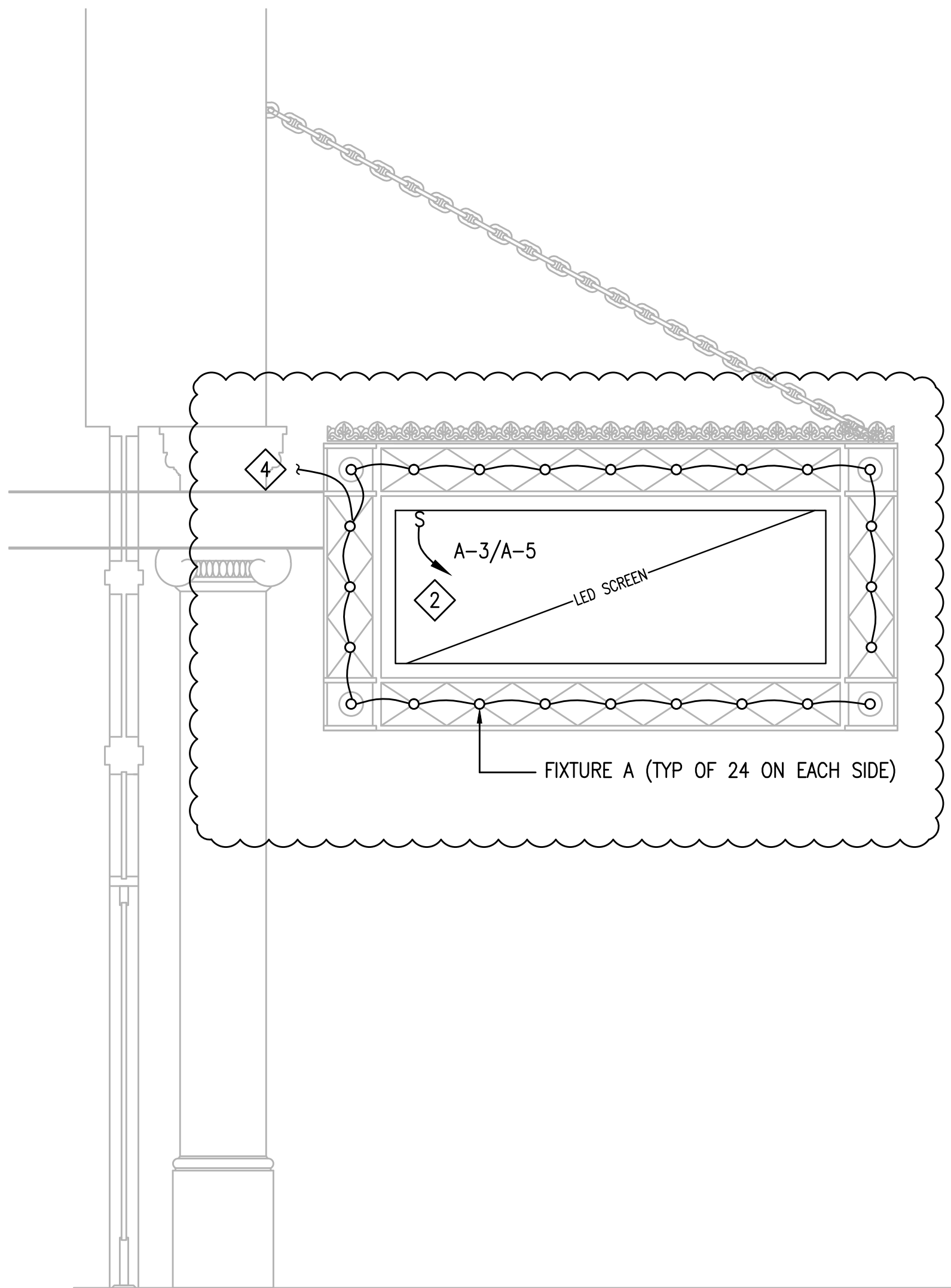


UNDERSIDE OF MARQUEE LIGHTING
1/2" = 1'-0"

- DRAWING NOTES:**
- 1 WIRE MARQUEE LIGHTING THRU CIRCUIT 1 ON ASTRONOMIC TIME SWITCH.
 - 2 COORDINATE DISCONNECT REQUIREMENTS AND LOCATION WITH FABRICATOR AND LCD SCREEN INSTALLER.
 - 3 FEED LIGHTING ON SIDES AND ROOF OF MARQUEE.
 - 4 LIGHTING FED FROM MARQUEE UNDERSIDE LIGHTING.
 - 5 COORDINATE DISCONNECT REQUIREMENTS AND LOCATION WITH FABRICATOR AND BACKLIT LETTER INSTALLER. VERIFY VOLTAGE AND AC/DC.



MARQUEE FRONT ELEVATION
1/2" = 1'-0"



MARQUEE SIDE ELEVATION (TYP OF 2)
1/2" = 1'-0"

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MARQUEE
ELECTRICAL

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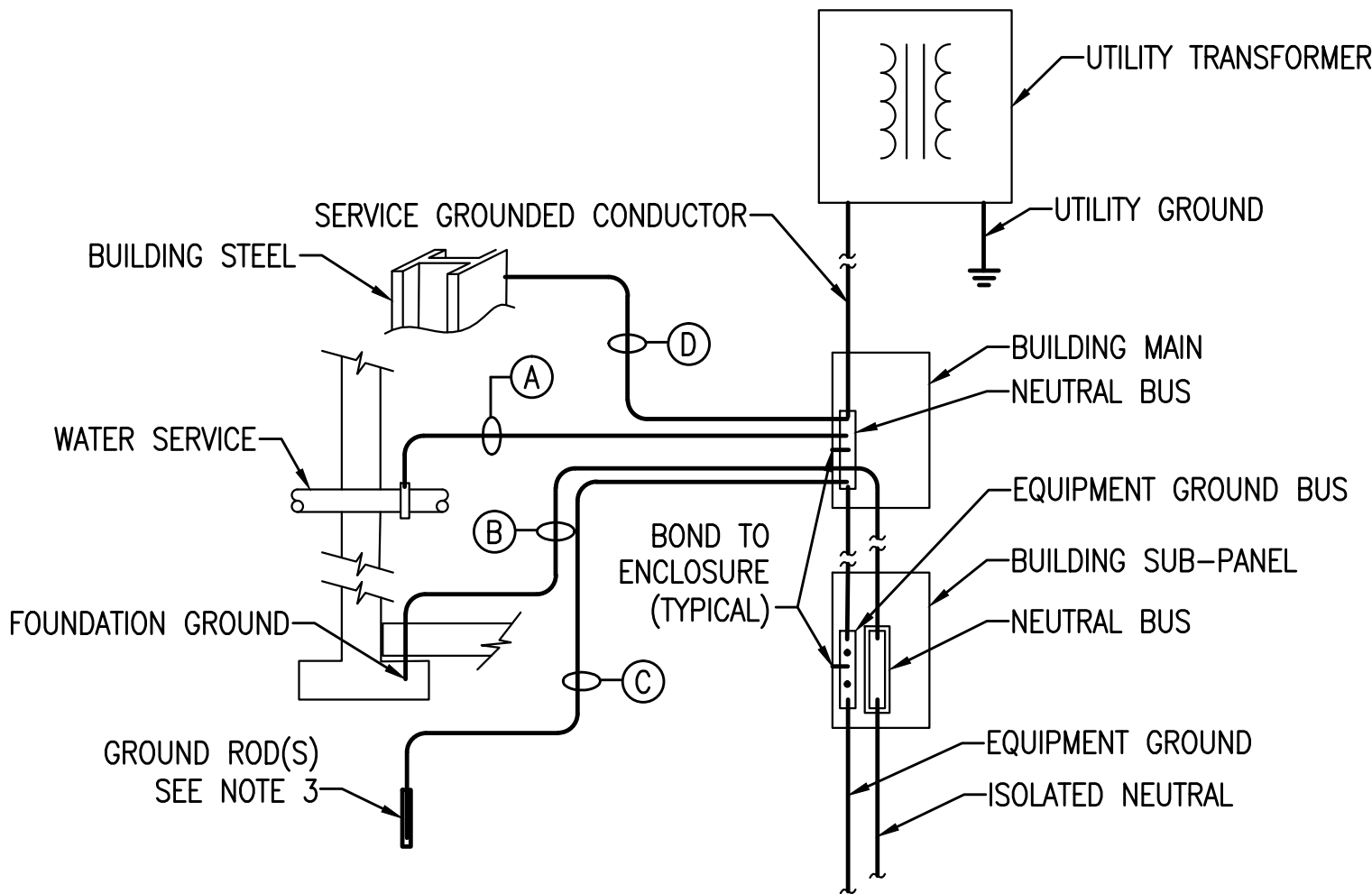
E-3

GENERAL NOTE

1. ALL SWITCHBOARDS, SWITCHGEAR, AND PANEL BOARDS SUPPLIED BY A FEEDER(S) IN OTHER THAN ONE- OR TWO-FAMILY DWELLINGS SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES. TYPICAL FOR ALL PANELS.

PANEL SCHEDULE											
POWER PANEL: A VOLTS: 120/240 PHASE: 1 WIRE: 3 ENCLOSURE NEMA: 1						MOUNTING: BUS RATING: MAIN OC DEVICE: MINIMUM AIC:		SURFACE 400A 400A 22K			
C K T	DESCRIPTION	V-A	P O L E	B R K R	A	B	B R K R	P O L E	V-A	DESCRIPTION	C K T
1	MARQUEE SCREEN 1	1400	1	20	●				0		2
3	MARQUEE SCREEN 2	1400	1	20		●			0		4
5	MARQUEE SCREEN 3	1400	1	20	●				0		6
7	MARQUEE LIGHTS	800	1	20		●			0		8
9	SPARE	0	1	20	●				0		10
11	FRONT OUTDOOR RECEPT 1	300	1	20		●			0		12
13	FRONT OUTDOOR RECEPT 2	300	1	20	●				0		14
15	ELECTRICAL ROOM RECEPT AND LGT	500	1	20		●			0		16
17		0			●				0		18
19		0			●				0		20
21		0			●				0		22
23		0			●				0		24
25		0			●				0		26
27		0			●				0		28
29		0			●				0		30
31		0			●				0		32
33		0			●				0		34
35		0			●				0		36
37		0			●				0		38
39		0			●		200	2	16000	PANEL B IN BASEMENT	40
41		0			●		-	-	16000	SUBFEED BREAKER	42
CONNECTED LOAD (VA) PHASE A =		19100	TOTAL CONNECTED LOAD VA =		38100		TOTAL DEMAND LOAD VA =		38100		
CONNECTED LOAD (VA) PHASE B =		19000	TOTAL CONNECTED AMPS =		159		TOTAL DEMAND AMPS PER PHASE =		159		

NOTE: PROVIDE PANEL WITH 2P 200A SUBFEED BREAKER



MAIN GROUNDING ELECTRODE DETAIL

NOT TO SCALE

NOTES:

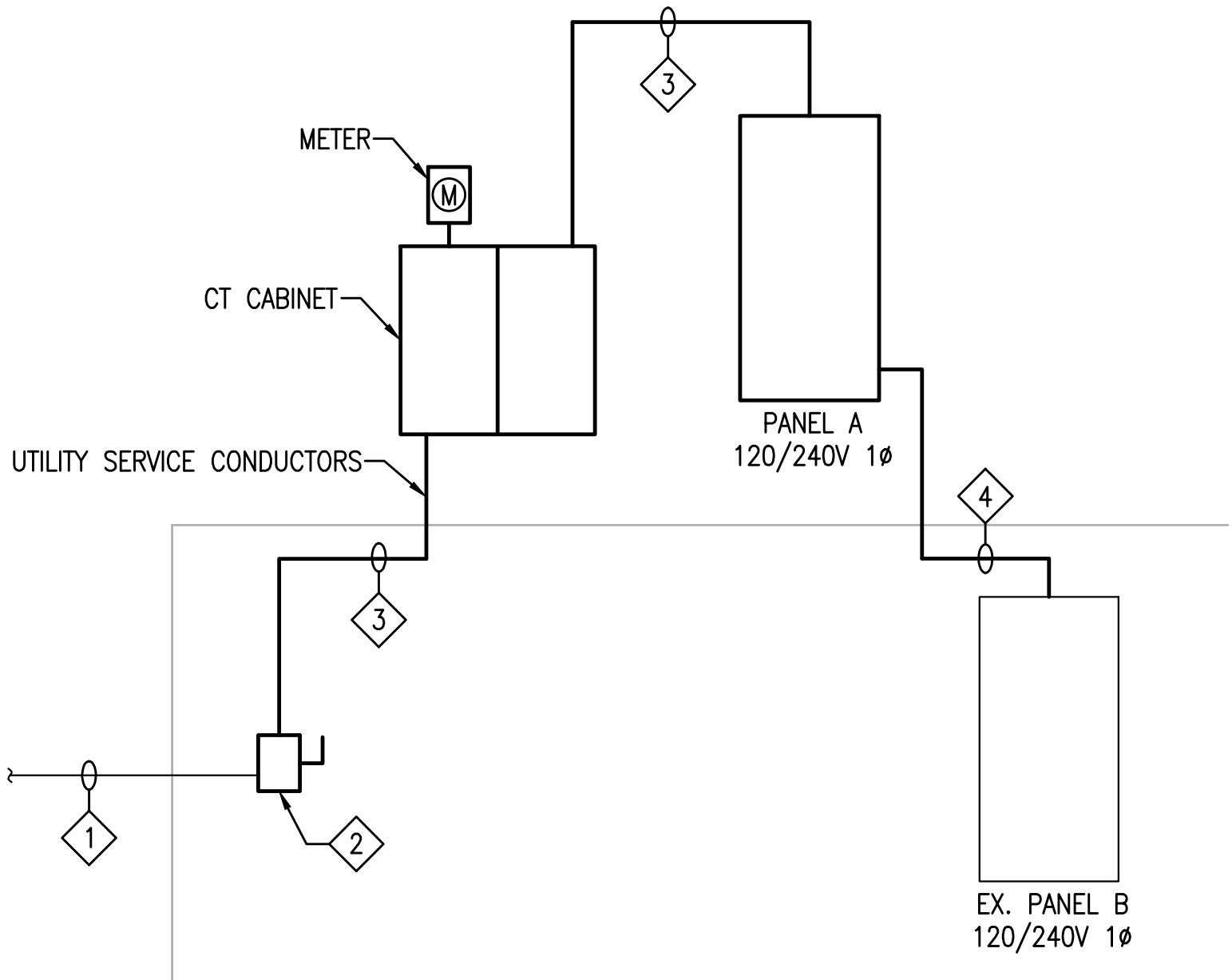
1. CONCRETE ENCASE ELECTRODE.
2. IF CONTINUOUS METALLIC WATER PIPE OR BUILDING STEEL IS NOT AVAILABLE THEN GROUNDING ELECTRODE SHALL BE FULL SIZE.
3. PROVIDE ADDITIONAL RODS AS NEEDED FOR TOTAL RESISTANCE OF 25 OHMS OR LESS.

GROUND CONDUCTOR TABLE				
SERVICE SIZE	A	B	C	D
100A	#8	#4	#6	#8
200A	#4	#4	#6	#4
400A	1/0	#4	#6	1/0
600 OR 800A	2/0	#4	#6	2/0
OVER 800A	3/0	#4	#6	3/0
NOTE: SIZES BASED ON COPPER CONDUCTORS				

CONDUIT AND WIRE SIZE SCHEDULE				
UNLESS OTHERWISE INDICATED				
CIRCUIT BREAKER TRIP AMPS	GROUND SIZE	WIRE SIZE	1 OR 2 POLE CONDUIT	3 POLE CONDUIT
15	14	12	3/4"	3/4"
20	12	12	3/4"	3/4"
25	10	10	3/4"	3/4"
30	10	10	3/4"	3/4"
35	10	8	3/4"	3/4"
40	10	8	3/4"	1"
45	10	8	1"	1"
50	10	8	1"	1"
60	10	6	1"	1-1/4"
70	8	4	1"	1-1/4"
80	8	4	1-1/4"	1-1/4"
90	8	3	1-1/4"	1-1/4"
100	8	3	1-1/4"	1-1/4"

DRAWING NOTES:

- 1 EXISTING 120/240V 1Ø 200A SERVICE. COORDINATE WITH BGE TO UPGRADE SERVICE TO 400A.
2 SEALABLE SERVICE ENTRANCE RATED FUSED SAFETY SWITCH. 3P, 400A, 240V IN NEMA 1 ENCLOSURE. VERIFY COMPLIANCE WITH BGE PRIOR TO INSTALLATION. PROVIDE 400A FUSES AND METAL SUPPORT STRUCTURE. IF NOT REQUIRED BY ELECTRICAL INSPECTOR THIS MAY BE OMITTED.
3 3#500 & #3G IN 3"C.
4 3#3/0 & #6G IN 2"C



POWER RISER DIAGRAM

NOT TO SCALE

LIGHT FIXTURE SCHEDULE				
TYPE	DESCRIPTION	MAKE/MODEL	VOLTAGE	NOTES
A	MARQUEE MARKER	ABL-WINONA LIGHTING MARKER01 RND PTN2 WL LSR1 WHT30K MVOLT FL1 SGW	120	RAL COLORS
B	MARQUEE DOWNLIGHT	ABL-JUNO 2LEDdriver G2 10LM MVOLT ZT WITH 2LEDTRIM G2 DC 30K 80CRI NFL WWH	120	
C	FACADE FLOOD	ABL-LITHONIA LIGHTING DSXF1 LED P1 30K FL MVOLT FV YKC62 DNAXD	120	
D	NOT USED	-	-	-
E	ELECTRICAL ROOM SURFACE	LITHONIA 888791197921	120	
F	WHITE EMERGENCY LIGHT	LITHONIA ELM4L	120	WITH BATTERY BACKUP



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SCHEDULES
AND RISER

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